RC-QN1/QN2/QN3

Instructions for RC-QN1

English

Thank you for purchasing the JVC CD Portable System.
We hope it will be a valued addition to your home as well as to your outdoor life, giving you years of enjoyment.
Be sure to read this instruction manual carefully before operating your new stereo system.
In it you will find all the information you need to set up and use the system.
If you have a query that is not answered by the manual, please contact your dealer.

Features

Here are some of the things that make your System both powerful and simple to use.

- The controls and operations have been redesigned to make them very easy to use, freeing you to just enjoy the music.
  - With JVC's **COMPU PLAY** you can turn on the System and automatically start the Radio, CD Player, or Cassette Deck with a single touch. (When power is supplied from AC)
- Sound effects; BEAT, POP, and CLEAR.
- A 30-station preset capability (15 FM and 15 AM) in addition to auto-seek and manual tuning.
- A user-friendly timer lets you fall asleep to music.

COMPU PLAY

How This Manual Is Organized

- Basic information that is the same for many different functions - e.g. setting the volume - is given in the section 'Common Operations', and not repeated under each function.
- The names of buttons/controls are written in all capital letters: e.g. TUNER BAND.
- System functions are written with an initial capital letter only: e.g. Normal Play.

Use the table of contents to look up specific information you require.
We've enjoyed making this manual for you, and hope it serves you in enjoying the many features built into your System.

IMPORTANT CAUTIONS

When carrying the Unit

- Do not raise or lower the carrying handle of the Unit with the telescopic antenna extended in order to avoid damaging the antenna.

Where to place the Unit

- Select a place which is level, dry and neither too hot nor too cold (between 5°C/41°F and 35°C/95°F).
- Leave sufficient distance between the Unit and a TV.
- Do not use the Unit in a place subject to vibrations.

Power cord

- Do not handle the power cord with wet hands!
- Some power (2.6 W) is always consumed as long as the power cord is connected to the wall outlet.
- When unplugging the Unit from the wall outlet, always pull the plug, not the power cord.

Malfunctions, etc.

- There are no user serviceable parts inside. In case of system failure, unplug the power cord and consult your dealer.
- Do not insert any metallic object into the System.

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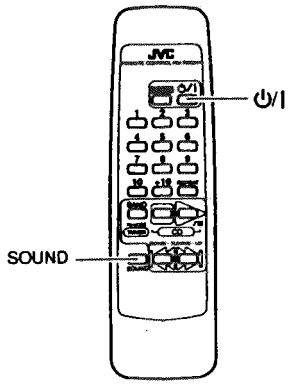
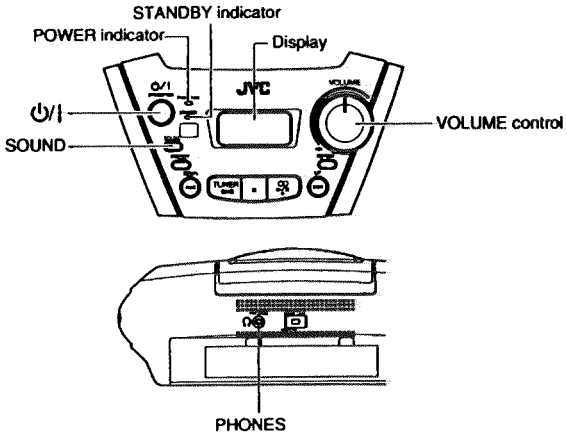
English

Common Operations

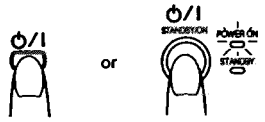




Turning the Power On and Standby

Turning the Unit On

Press the ⏻/I button.



The POWER ON indicator (green) lights up and the display comes on.

The Unit comes on ready to continue in the mode it was in when the power was last turned off.

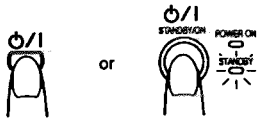
- For example, if the last thing you were doing was listening to a CD, you are now ready to listen to a CD again. If you wish, you can change to another source.
- If you were listening to the Tuner last, the Tuner comes on playing the station it was last set to.

Note: When power is supplied from the batteries, the ⏻/I button on the Remote Control does not work.

Turning the Unit Standby

Press the ⏻/I button again.

When operating on AC power:



The STANDBY indicator lights up and the display is blank.

- When in Standby mode, the Unit continues to a small amount of power (2.6 W) to run the display.
- To switch off the Unit completely, unplug the AC power cord from the AC outlet.

When power is supplied from the batteries:

When the Unit is turned off with the ⏻/I button on the Unit (the ⏻/I button on the Remote Control is ineffective), the Standby indicator goes out and the display is blank.

To switch off the Unit completely, remove the batteries from the Unit.

Adjusting the Volume

Turn the VOLUME control on the Unit to the right or left to increase or decrease the volume level.

CAUTION: DO NOT turn on the Unit and/or start playing any source without first setting the VOLUME control to 0, as a sudden blast of sound can damage your hearing, speakers and/or headphones.

For private listening

Connect a pair of headphones to the PHONES jack. No sound comes out of the speakers.

Be sure to turn down the volume before connecting or putting on headphones.

Sound Effects (SOUND)

The System has the following preset sound effects that give you control over the way your music sounds, so you can tailor it to the acoustics of your room and the quality of your source. Test the sound effects out to hear how each affects the music. Note that the effects work only during playback.

Sound effects

FLAT: No sound effect.
BEAT: Boosts low and high frequencies.
POP: Good for vocal music.
CLEAR: For a wide, dynamic stereo sound.

To get an effect, press the SOUND button repeatedly until the Sound mode you want appears on the display.

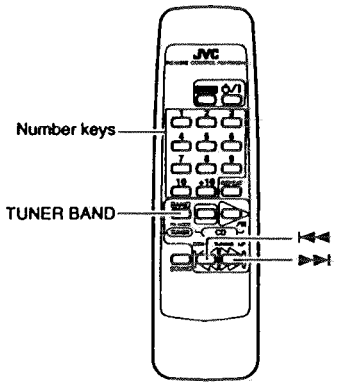
Each time you press the SOUND button, the display changes as shown below:

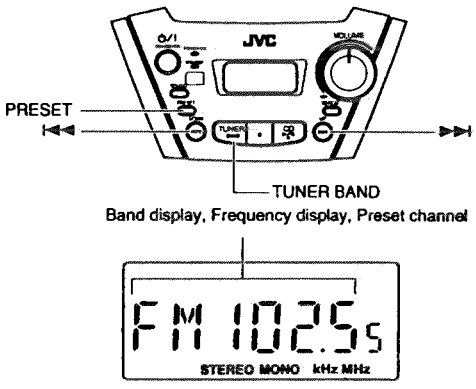
BASS BASS
BEAT → POP → CLEAR → FLAT

To cancel the effect, press the SOUND button until "FLAT" appears on the display

English

Using the Tuner





(Display when using the Tuner)

You can listen to FM and AM stations. Stations can be tuned in manually, automatically, or from preset memory storage.

One Touch Radio (AC power only)—

Just press the TUNER BAND button to turn on the Unit and start playing the station you were last tuned to.

■ You can also switch from any other sound source to the radio by pressing the TUNER BAND button.

Tuning in Stations

1 Press the TUNER BAND button.

The Band and Frequency you were last tuned to appear on the display.

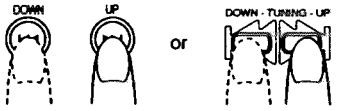
Each time you press the button, the band changes as follows:

FM Auto → FM MONO → AM →

2 Select a station using one of the following methods.

■ **Manual Tuning**

Press the ⏮ or ⏭ button repeatedly to move from frequency to frequency until you find the station you want.



OR

■ **Auto Tuning**

If you press and hold the ⏮ or ⏭ button for one second or more, the frequency changes down, or up, automatically until a station is found.

OR

■ **Preset Tuning using the Unit (Possible only after presetting stations)**

Press the PRESET button to select the preset station.

After you have selected the preset number, the band and the frequency are displayed.

Example:Press the PRESET button until the preset number 12 "P- 12" appears.

P- 12 → FM 103.5

OR

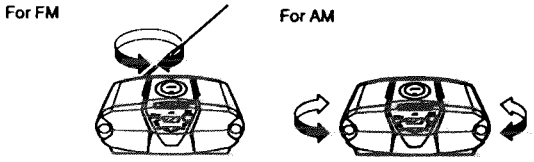
■ **Preset Tuning using the Remote Control (Possible only after presetting stations)**

Select the station by entering its preset number on the number keys.

- Example:For channel 5, press 5. For channel 15, press +10 then 5.
- The band and the frequency are displayed.

3 Turn the antenna for best reception.

- For FM broadcast, extend and turn the telescopic antenna.
- For AM broadcast, turn the Unit itself.



Presetting Stations

You can preset up to 15 FM stations and up to 15 AM stations into memory using the Remote Control.

Auto Presetting (Using the Unit)

In each band, you can automatically preset FM-15, AM-15 stations. Preset numbers will be allocated as stations are found, starting from the station currently tuned to and moving up the frequency.

1 Select a band (AM or FM) by pressing the TUNER BAND button.

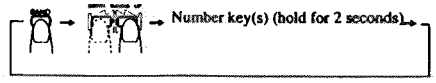
2 Press the PRESET button for more than two seconds.

3 Repeat steps 1-2 for the other band.

■ If you want to change any of the auto preset stations, follow the procedure for Manual Presetting.

CAUTION: If the Unit is unplugged or if a power failure occurs, the preset stations will be erased after approx. five minutes. If this happens, you will need to preset the stations again.

Manual Presetting (Using the Remote Control)



1 Select a band by pressing the TUNER BAND button.

2 Press the ⏮ or ⏭ button to tune in a station.

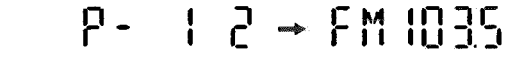
3 Set the preset number by pressing and holding the number key on the Remote Control.

English

- To preset numbers 1 to 10: Press the number key and hold down for 2 seconds.
- To preset numbers 11 to 15: Press and release the +10 button, then press the second number key (1 to 5) and hold down for 2 seconds.

When the preset display blinks, the setting is stored and you can release the number key. The display returns to the normal band and frequency display.

Example: Preset number = 12



Repeat steps 1 - 3 for each station.

To change the preset stations, repeat the same steps as above.

To Change the FM Reception Mode

The "STEREO" indicator lights up and you can hear stereo effects, when a program is broadcast in stereo.

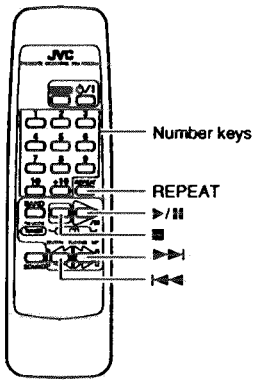
However if an FM stereo broadcast is hard to receive or noisy, you can select Monaural mode. Reception improves, but you lose any stereo effect.

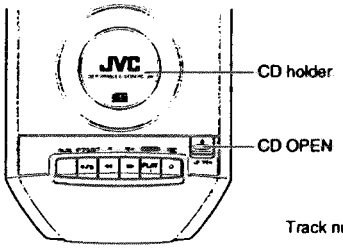
Press the TUNER BAND button to select FM MONO mode.

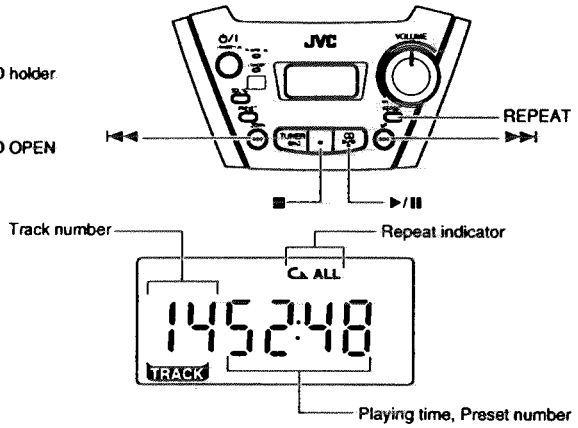
The "MONO" indicator lights up on the display.

To restore the stereo effect, press the TUNER BAND button to select FM Auto mode. The "MONO" indicator goes out.

Using the CD Player







(Display when using the CD Player)

You can use Normal or Repeat Play. Repeat Play can be set to repeat all or just one of the tracks on the CD.

One Touch CD Player (AC power only)

■ Just press the CD ▶/II button.

- The power is automatically turned on. If a CD is already inserted, "PLAY" is displayed and the CD will start playing from the first track.
- If no CD is inserted, "NO DISC" is displayed on the display and the CD Player remains in Stop mode.

Normal Play

1 Press the CD OPEN button on the Unit.

The CD holder opens.

2 Place a CD, with its label side up.

3 Gently close the CD holder by hand.

4 Press the CD ▶/II button.

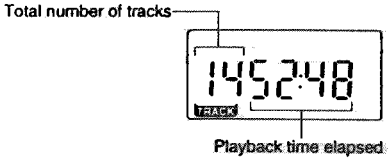
The first track of the CD begins playing.

The CD Player automatically stops when the last track of the CD has finished playing.

- During playback, the track number being played and the playback time elapsed are shown on the display.

To stop playing the CD, press the ■ button.

The following information for the CD is displayed.



To pause, press the CD ▶/II.

To cancel pause, press the CD ▶/II again. Play continues from the point where it was paused.

Notes:

- You can place an 8 cm (3") CD without an adaptor.
- If the CD cannot be read correctly (because it is scratched, for example), "000000" appears on the display.
- Even if other function is selected during playing the CD, the last track is memorized.

Skip Play (I◀◀ or ▶▶I)

During playback, press the I◀◀ or ▶▶I button to select the track you want.

The selected track starts playing.

- Press and release the ▶▶I button to go forward one track at a time.
- Press and release the I◀◀ button to go back one track at a time.

Search Play

During playback, hold down the I◀◀ or ▶▶I button.

This operation will fast forward/backwards the CD so you can quickly find a particular passage in the track you are listening to (the CD is played slowly for a moment and then the playback speed increases).

Locating a Track directly with the Remote Control

Using the number keys on the Remote Control allows you can go directly to the beginning of any track.

During playback, enter the number of the track you want to listen to using the number keys.

The selected track starts playing.

- Example: For track 5, press 5. For track 15, press +10 then 5. For track 20, press +10, then 10. For track 32, press +10 three times, then 2.

Repeat Play

You can repeat one track or all the tracks on a CD.

During, or before playback, press the REPEAT button on the Remote Control to select the Repeat mode.

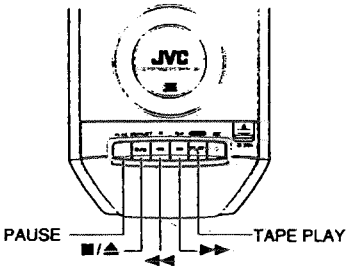
The Repeat indicator changes with each press of the button, as shown below.

⊂ → ⊂ **ALL** → blank display → (back to the beginning)

⊂ : Repeats one track.
⊂ **ALL** : Repeats all the tracks.

To exit Repeat mode, press the REPEAT button until the Repeat indicator on the display goes out.

Using the Cassette Deck (Listening to a Tape)



(Display when using the Cassette Deck)

The Cassette Deck allows you to play and record audio tapes

Notes:

- The Cassette Deck performs best with normal tapes (metal or CrO_2 tapes are not recommended).
- The use of tapes longer than 120 minutes is not recommended, since characteristic deterioration may occur and these tapes easily jam in the pinch-roller and the capstan.

One Touch Play (AC power only)

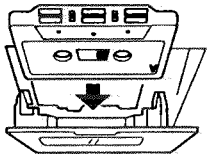
Just press the TAPE PLAY button on the Unit. The power is automatically turned on, "TAPE" is displayed, and if a tape is already in the deck, it will start to play.

Playback

Press the ■/⏏ STOP/EJECT button to open the cassette holder.

Insert a cassette tape with the exposed side facing upward as shown below.

← Forward direction



Close the holder gently until it clicks.

Press the TAPE PLAY button.

- The tape is played and then stops when it reaches the end.

To pause, press the PAUSE button on the Unit.

To cancel pause, press the PAUSE button again. Play continues from the point where it was paused.

To stop playing, press the ■/⏏ STOP/EJECT button.

To remove the tape, stop the tape, and press the ■/⏏ STOP/EJECT button again.

To fast-forward and rewind the tape

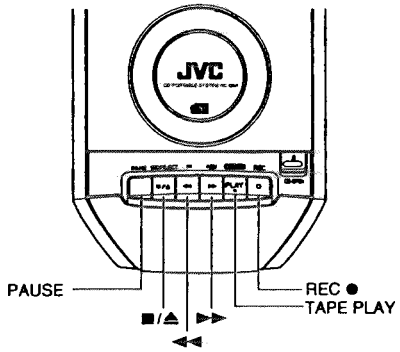
Press the ◀◀ (fast-forward) button on the Unit to fast-forward the tape.

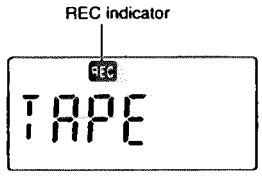
Press the ▶▶ (rewind) button on the Unit to rewind the tape.

- The Cassette Deck automatically stops when the tape reaches its end.

English

Using the Cassette Deck (Recording)

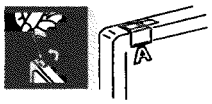




(Display when using the Cassette Deck)

Things To Know Before You Start Recording

- **It may be unlawful to record or playback copyrighted material without the consent of the copyright owner.**
- The correct recording level is automatically set by the ALC (Automatic Level Control) function, and is not affected by the VOLUME control on the Unit or by the use of sound effects.
- Two small tabs on the back of the cassette tape, one for side A and one for side B, can be removed to prevent accidental erasure or recording.
- To record on a cassette with the tabs removed, you must cover the holes with adhesive tape as shown.



Notes:

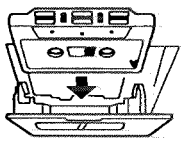
- Use normal tapes (not metal or CrO_2 tapes) for recording.
- At the start and end of cassette tapes, there is leader tape which cannot be recorded onto.
- If a recorded tape you make has excessive noise or static, the Unit may have been too close to a TV during the recording. Either turn off the TV or increase the distance between the TV and the Unit.

Recording from the Radio

1 Press the ■/⏏ STOP/EJECT button to open the cassette holder.

2 Insert a blank or erasable cassette tape with the exposed side facing upward as shown below and wind past the leader tape.

← Forward direction



3 Close the holder gently until it clicks.

4 Tune in to a radio station.

5 Press the ● REC button on the Unit.

The PLAY button is pressed at the same time, the "REC" indicator lights up, and the Unit begins recording.

- The tape is recorded and then stops when it reaches the end.

To pause the recording, press the PAUSE button on the Unit.
To cancel pause, press the PAUSE button again. Recording continues from the point where it was paused.
To stop recording, press the ■/⏏ STOP/EJECT button.
To remove the tape, stop the tape, and press the ■/⏏ STOP/EJECT button again to open the cassette holder.

Recording an AM station (BEAT CUT)

When recording an AM broadcast, beats may be produced which are not heard when listening to the broadcast. If this happens, you can use the BEAT CUT function.

Switch the BEAT CUT switch on the back of the Unit from the NORM-1 to 2 or 3.

Note: In regular use, the BEAT CUT switch should be set to the NORM-1 position.

Recording from the CD

The CD Player can be started with the Cassette Deck for synchronous recording and everything on the CD recorded onto the tape in the order it is on the CD.

1 Insert a cassette tape in the Cassette Deck and wind past the leader tape.

2 Load a CD.

3 Press the CD ►/II button.

4 Press the ■ button to stop the CD.

- You can check the number of tracks and the total playback time of the CD on the display. (See page 6.)

5 Select the Repeat mode of the CD if desired.

To select the Repeat mode (⊂ or ⊂ ALL), press the REPEAT button on the Remote Control.

6 Choose whether to have approx. four seconds of blank tape between tracks.

If you want the blank section, skip this step.
If you do not want the blank section, perform the following operation on the CD Player.

- Press the CD ►/II button twice.

7 Press the ● REC button on the Unit.

The PLAY button is pressed at the same time, the "REC" indicator lights up, and the synchronous recording begins.

- The tape is recorded and then stops when it reaches the end.
- To continue recording to the other side of the tape, perform the following steps.

1. Reverse the cassette tape and wind past the leader tape.
2. Press the CD ▶/II button and then press the ● REC button.

Then, the synchronous recording begins from the beginning of the last track that was stopped at the end of the first side of the tape.

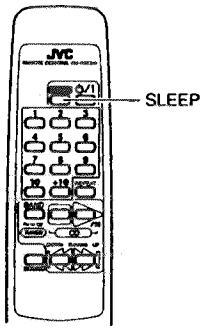
To stop recording, press the ■/▲ STOP/EJECT button.

To remove the tape, stop the tape, and press the ■/▲ STOP/EJECT button again to open the cassette holder.

Notes:

- If the CD reaches its end before the tape, the tape will continue to run until stopped. Press ■/▲ STOP/EJECT button to stop the tape.
- During synchronous recording, the CD ▶/II, I◀◀, and ▶▶I buttons for the CD Player do not function.
- If you press the ● REC button during play the CD, recording will start from the beginning of the track being played.

Using the Sleep Timer



Use the Sleep Timer to turn the Unit off after a certain number of minutes when it is playing. By setting the Sleep Timer, you can fall asleep to music and know that your Unit will turn off by itself rather than play all night.

■ You can only set the Sleep Timer when the Unit is on and a source is playing.

1 Play back a CD, tune in to a desired station, or play back a tape.

2 Press the SLEEP button on the Remote Control.

The "SLEEP" indicator lights up.

3 Set the length of time you want the source to play before shutting off.

- Each time you press the SLEEP button, it changes the number of minutes shown on the display in this sequence:

→ **30** → **60** → **90** → **120** → **Cancelled** → (back to the beginning)

The display will stop blinking after 5 seconds and return to the display before you set the Sleep Timer.

The Unit is now set to turn off after the number of minutes you have set.

To Confirm the Sleep Time

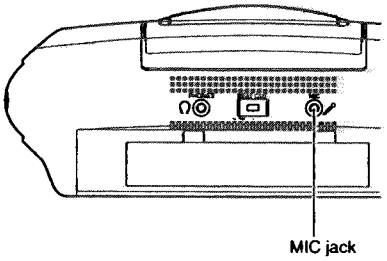
When the SLEEP button is pressed, the remaining sleep time is displayed. After 5 seconds the original display returns.

To Cancel the SLEEP Timer Setting

Press the SLEEP button until the "SLEEP" indicator goes off on the display.

Turning off the Unit also cancels the SLEEP Timer.

Using the Microphones



Microphone Mixing

Using a microphone (not supplied), you can mix the microphone sound with a source sound.

1 Connect a microphone by plugging it into the MIC jack on the back of the Unit.

2 Start a source; CD, tape, or tuner.

3 Adjust the volume level, as you sing into the microphone.

Playing the Microphone Sound through the Speakers

1 Connect a microphone by plugging it into the MIC jack on the back of the Unit.

2 Adjust the volume level, as you sing into the microphone.

Note: If "howling" occurs, keep the microphone away from the Unit.

English

Recording from a Microphone

1 Connect a microphone by plugging it into the MIC jack on the back of the Unit.

2 Adjust the volume level, as you sing into the microphone.

3 To record, follow the steps in "Recording from the Radio" or "Recording from the CD" according to the source you want to mix. (See pages 8 and 9.)

Note: If "howling" occurs, keep the microphone away from the Unit.

Recording from a Microphone

1 Connect a microphone by plugging it into the MIC jack on the back of the Unit.

2 Adjust the volume level, as you sing into the microphone.

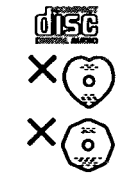
3 To record, refer to "Recording from Radio" except for tuning in to a radio station. (See page 8.)

Note: If "howling" occurs, keep the microphone away from the Unit.

Care And Maintenance

Handle your CDs carefully, and they will last a long time.

Compact Discs



- Only CDs bearing this mark can be used with this Unit.
- Continued use of irregularly shaped CDs (heart-shape, octagonal, etc.) can damage the Unit.
- Remove the CD from its case by holding it at the edges while pressing the case's center hole lightly.
- Do not touch the shiny surface of the CD, or bend the CD.
- Put the CD back in its case after use to prevent warping.
- Be careful not to scratch the surface of the CD when placing it back in the case.
- Avoid exposure to direct sunlight, temperature extremes, and moisture.
- A dirty CD may not play correctly. If a CD is dirty, wipe it with a soft cloth in a straight line from center to edge.

CAUTION: Do not use any solvent (for example, conventional record cleaner, spray thinner, benzine, etc.) to clean a CD.

Moisture Condensation

Moisture may condense on the lens inside the Unit in the following cases:

- After turning on heating in the room.
- In a damp room.
- If the Unit is brought directly from a cold to a warm place.

Should this occur, the Unit may malfunction. If this happens, leave it turned on for a few hours until the moisture evaporates, unplug the AC power cord, and then plug it in again.

General Notes

To ensure top performance, keep your CDs and the mechanism clean.

- Store CDs in their cases, and keep them in cabinets or on shelves.
- Keep the CD holder closed when not in use.

Cassette Tapes

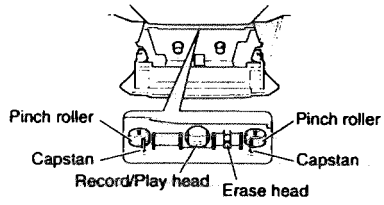
- If a tape is loose, it may get stretched, cut, or caught in the cassette. Take up the slack by inserting a pencil in one of the reels and rotating in the right direction.

- Do not touch the tape surface.

- Do not store the tape:
  - In dusty places
  - In direct sunlight or heat
  - In damp areas
  - On a TV or speaker
  - Near a magnet

Cassette Deck

- If the heads, capstan, or pinch-roller in the Cassette Deck become dirty, you may experience:
  - Loss of sound quality
  - Discontinuous sound
  - Fading
  - Incomplete erasure
  - Difficulty recording
- Clean the heads, capstans, and pinch-rollers using a cotton swab moistened with alcohol.



- If the heads become magnetized, the Unit will produce noise or lose high frequency notes.
- To demagnetize the heads, turn off the Unit, and use a head demagnetizer (available at electronics and record shops).

English

Troubleshooting

- If you have a problem with your System, check this list for a possible solution before calling for service.
- If you cannot solve the problem from the hints given here, or the System has been physically damaged, call a qualified person, such as your dealer, for service.

Symptom	Possible Cause	Action
No sound is heard.	• The power cord is disconnected. • The batteries in the Unit have lost their charge. • Headphones are connected.	• Connect it firmly. • Replace the batteries. • Disconnect the headphones.
Unable to record.	Cassette record protect tabs are removed.	Cover the holes on the back edge of the cassette with tape.
Poor radio reception	• The System is not properly positioned. • The Antenna is not properly positioned.	• Turn the System to the best reception position. • Extend the Antenna and turn it to the best reception position.
The CD skips.	The CD is dirty or scratched.	Clean or replace the CD.
The CD does not play.	The CD is upside down.	Put the CD in with the label side up.
Unable to operate the Remote Control.	• The path between the Remote Control and the sensor on the Unit is blocked. • The batteries have lost their charge.	• Remove the obstruction. • Replace the batteries.
Operations are disabled.	The built-in microprocessor has malfunctioned due to external electrical interference.	Unplug the Unit then plug it back in.
The cassette door cannot be opened.	During tape playing, the power cord was unplugged.	Plug in the power cord, press the ⏻/I button, and then press the ■/⏏ STOP/EJECT button.

Specifications

Amplifier

Output Power	14 W (7 W + 7 W) at 3 ohms (Max.)
Input jack	MIC (3.5 mm dia. plug) (Matching impedance: 200 ohms - 2 kohms)
Output jack	Headphones (0 - 20 mW/ch, 32 ohms) (Matching impedance: 16 ohms - 1 kohm)

Cassette Deck

Frequency Response	80-12,500 Hz
Wow and Flutter	0.15% (WRMS)

CD Player

Signal-To-Noise Ratio	90 dB
Wow And Flutter	Unmeasurable

Tuner

FM Tuner	
Tuning Range	87.5 - 108.0 MHz
AM Tuner	
Tuning Range	531 - 1,602 kHz (at 9 kHz channel space) 530 - 1,710 kHz (at 10 kHz channel space)
Antenna	Telescopic antenna for FM Built-in ferrite core antenna for AM
Speakers	10 cm (3-15/16") × 2, 3 ohms

General

Dimensions	480 × 186 × 254 mm (W/H/D) (18-15/16 × 7-3/8 × 10 inches)
Mass	Approx. 4.0 kg (8.9 lbs) (without batteries)

Accessories

Power Cord (1)
Remote Control (RM-RXQN1E) (1)
Batteries for Remote Control R6 (SUM-3) /AA (15F) (2)

Power Specifications

Power Requirements	AC 110/127/230 V ~ , 50/60 Hz
Power Consumption	14 W (power on mode) 2.6 W (in Standby mode)

Design and specifications are subject to change without notice.

RC-QN2/QN3

English

Thank you for purchasing the JVC CD Portable System.
We hope it will be a valued addition to your home as well as to your outdoor life, giving you years of enjoyment.
Be sure to read this instruction manual carefully before operating your new stereo system.
In it you will find all the information you need to set up and use the system.
If you have a query that is not answered by the manual, please contact your dealer.

Features

Here are some of the things that make your System both powerful and simple to use.

- The controls and operations have been redesigned to make them very easy to use, freeing you to just enjoy the music.
  - With JVC's **COMPU PLAY** you can turn on the System and automatically start the Radio, CD Player, or Cassette Deck with a single touch. (When power is supplied from AC)
- Sound effects; BEAT, POP, and CLEAR.
- The System incorporates AHB (Active Hyper Bass) PRO circuitry to faithfully reproduce low frequency sounds.
- A 30-station preset capability (15 FM and 15 AM) in addition to auto-seek and manual tuning.
- Auto-reverse tape function (RC-QN3 only).
- A user-friendly timer lets you wake or fall asleep to music.

COMPU PLAY

How This Manual Is Organized

- Basic information that is the same for many different functions - e.g. setting the volume - is given in the section 'Common Operations', and not repeated under each function.
- The names of buttons/controls are written in all capital letters: e.g. TUNER BAND.
- System functions are written with an initial capital letter only: e.g. Normal Play.

Use the table of contents to look up specific information you require.
We've enjoyed making this manual for you, and hope it serves you in enjoying the many features built into your System.

IMPORTANT CAUTIONS

When carrying the Unit

- Do not raise or lower the carrying handle of the Unit with the telescopic antenna extended in order to avoid damaging the antenna.

Where to place the Unit

- Select a place which is level, dry and neither too hot nor too cold (between 5°C/41°F and 35°C/95°F).
- Leave sufficient distance between the Unit and a TV.
- Do not use the Unit in a place subject to vibrations.

Power cord

- Do not handle the power cord with wet hands!
- Some power (2.8 W) is always consumed as long as the power cord is connected to the wall outlet.
- When unplugging the Unit from the wall outlet, always pull the plug, not the power cord.

Malfunctions, etc.

- There are no user serviceable parts inside. In case of system failure, unplug the power cord and consult your dealer.
- Do not insert any metallic object into the System.

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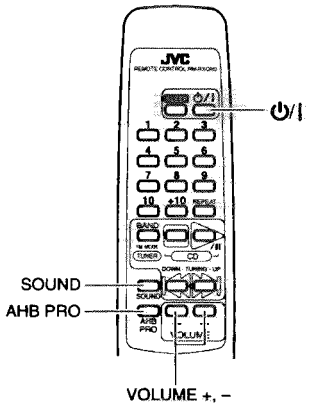
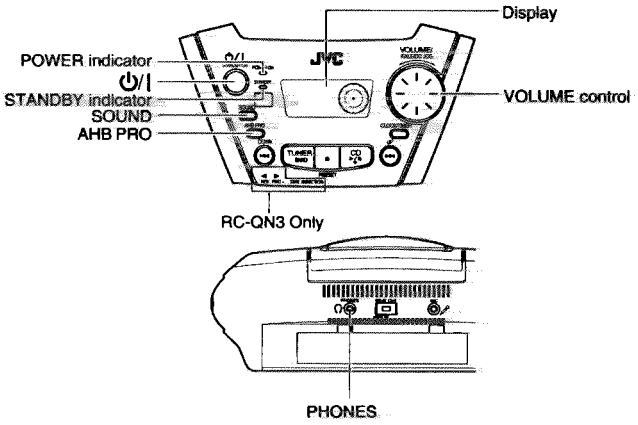
English

Common Operations

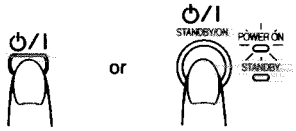




Turning the Power On and Standby

Turning the Unit On

Press the ⏻/I button.



The POWER ON indicator (green) lights up and the display comes on.
The Unit comes on ready to continue in the mode it was in when the power was last turned off.

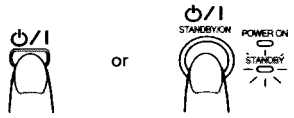
- For example, if the last thing you were doing was listening to a CD, you are now ready to listen to a CD again. If you wish, you can change to another source.
- If you were listening to the Tuner last, the Tuner comes on playing the station it was last set to.

Note: When power is supplied from the batteries, the ⏻/I button on the Remote Control does not work.

Turning the Unit Standby

Press the ⏻/I button again.

When operating on AC power:



The STANDBY indicator lights up and the display is blank, except for the clock display.

- When in Standby mode, the Unit continues to a small amount of power (2.8 W) to run the display.
- To switch off the Unit completely, unplug the AC power cord from the AC outlet.

When power is supplied from the batteries:

When the Unit is turned off with the ⏻/I button on the Unit (the ⏻/I button on the Remote Control is ineffective), the Standby indicator goes out and the display is blank, except for the clock display. Further, the backlight for the display goes out.
To switch off the Unit completely, remove the batteries from the Unit.

Adjusting the Volume

You can adjust the volume level between 0 and 25 when the Unit is turned on.

Turn the VOLUME control on the Unit to the right or left to increase or decrease the volume level.

OR

Press the VOLUME + or – button on the Remote Control to increase or decrease the volume level.

CAUTION: DO NOT turn on the Unit and/or start playing any source without first setting the VOLUME control to 0, as a sudden blast of sound can damage your hearing, speakers and/or headphones.

For private listening

Connect a pair of headphones to the PHONES jack. No sound comes out of the speakers.
Be sure to turn down the volume before connecting or putting on headphones.

Reinforcing the Bass Sound (AHB PRO)

You can reinforce the bass sound to maintain rich, full bass at low volume (you can use this effect only for playback):
To get the effect, press the AHB (Active Hyper Bass) PRO button.
The "AHB PRO" indicator lights up on the display.
To cancel the effect, press the button again.
The "AHB PRO" indicator goes out.

Sound Effects (SOUND)

The System has the following preset sound effects that give you control over the way your music sounds, so you can tailor it to the acoustics of your room and the quality of your source. Test the sound effects out to hear how each affects the music. Note that the effects work only during playback.

Sound effects

FLAT: No sound effect.
BEAT: Boosts low and high frequencies.

POP: Good for vocal music.
CLEAR: For a wide, dynamic stereo sound.

To get an effect, press the SOUND button repeatedly until the Sound mode you want appears on the display.
Each time you press the SOUND button, the display changes as shown below:

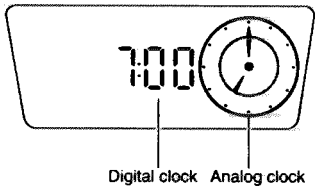
BEAT → POP → CLEAR → FLAT

To cancel the effect, press the SOUND button until "FLAT" appears on the display.

Showing the Time (Display)

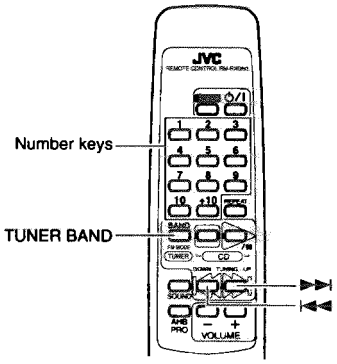
In standby mode, both a digital and an analog are displayed.
In Standby mode, both clocks are displayed on the display.

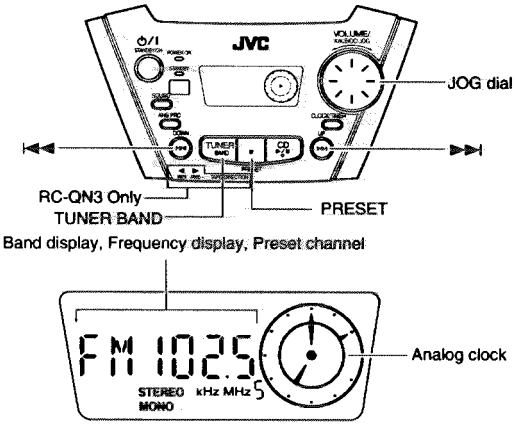
When the Unit is turned on, the analog clock only is displayed.
To display both clocks while the Unit is turned on, press the CLOCK/TIMER button on the Unit.
To return to the original display, press the CLOCK/TIMER button on the Unit once again.



Note: You need to set the clock first in order for it to work. (See "Setting the Clock" on page 10.)

Using the Tuner





(Display when using the Tuner)

You can listen to FM and AM stations. Stations can be tuned in manually, automatically, or from preset memory storage.

One Touch Radio (AC power only)—

Just press the TUNER BAND button to turn on the Unit and start playing the station you were last tuned to.

■ You can also switch from any other sound source to the radio by pressing the TUNER BAND button.

Tuning in a Station

1 Press the TUNER BAND button.

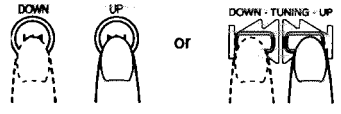
The Band and Frequency you were last tuned to appear on the display.
Each time you press the button, the band changes as follows:

FM Auto → FM MONO → AM →

2 Select a station using one of the following methods.

■ **Manual Tuning**

Press the ⏮ or ⏭ button repeatedly to move from frequency to frequency until you find the station you want.



OR

■ **Auto Tuning**

If you press and hold the ⏮ or ⏭ button for one second or more, the frequency changes down, or up, automatically until a station is found.

OR

■ **Preset Tuning using the Unit (Possible only after presetting stations)**

Press the ■ PRESET button to select the preset station.
After you have selected the preset number, the band and the frequency are displayed.

- Example:Press the ■ PRESET button until the preset number 12 "P- 12" appears.

P- 12 → FM 103.5

OR

■ **Preset Tuning using the Remote Control (Possible only after presetting stations)**

Select the station by entering its preset number on the number keys.

- Example:For channel 5, press 5. For channel 15, press +10 then 5.
- The band and the frequency are displayed.

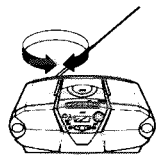
3 Turn the antenna for best reception.

- For FM broadcast, extend and turn the telescopic antenna.

English

- For AM broadcast, turn the Unit itself.

For FM



For AM

Presetting Stations

You can preset up to 15 FM stations and up to 15 AM stations into memory using the Remote Control.

Auto Presetting (Using the Unit)

In each band, you can automatically preset FM-15, AM-15 stations. Preset numbers will be allocated as stations are found, starting from the station currently tuned to and moving up the frequency.

1. Select a band (AM or FM) by pressing the TUNER BAND button.

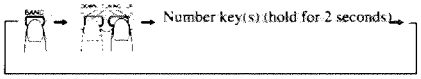
2. Press the ■ PRESET button for more than two seconds.

3. Repeat steps 1-2 for the other band.

■ If you want to change any of the auto preset stations, follow the procedure for Manual Presetting.

CAUTION: If the Unit is unplugged or if a power failure occurs, the preset stations will be erased after approx. five minutes. If this happens, you will need to preset the stations again.

Manual Presetting (Using the Remote Control)



1. Select a band by pressing the TUNER BAND button.

2. Press the ⏮ or ⏭ button to tune in a station.

3. Set the preset number by pressing and holding the number key on the Remote Control.

- To preset numbers 1 to 10: Press the number key and hold down for 2 seconds.
- To preset numbers 11 to 15: Press and release the +10 button, then press the second number key (1 to 5) and hold down for 2 seconds.

When the preset display blinks, the setting is stored and you can release the number key. The display returns to the normal band and frequency display.

Example: Preset number = 12

4. Repeat steps 1 - 3 for each station.

To change the preset stations, repeat the same steps as above.

To Change the FM Reception Mode

The "STEREO" indicator lights up and you can hear stereo effects, when a program is broadcast in stereo.

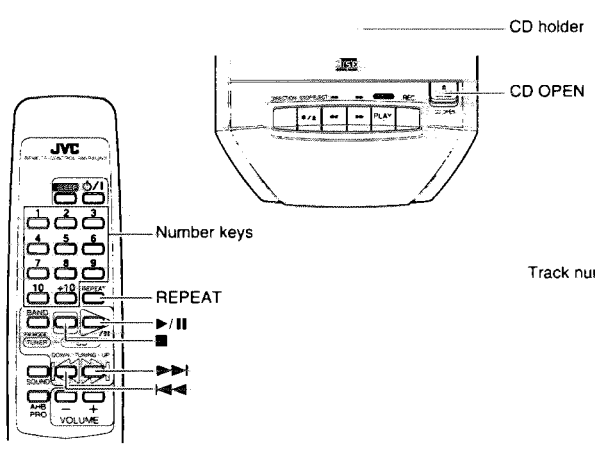
However if an FM stereo broadcast is hard to receive or noisy, you can select Monaural mode. Reception improves, but you lose any stereo effect.

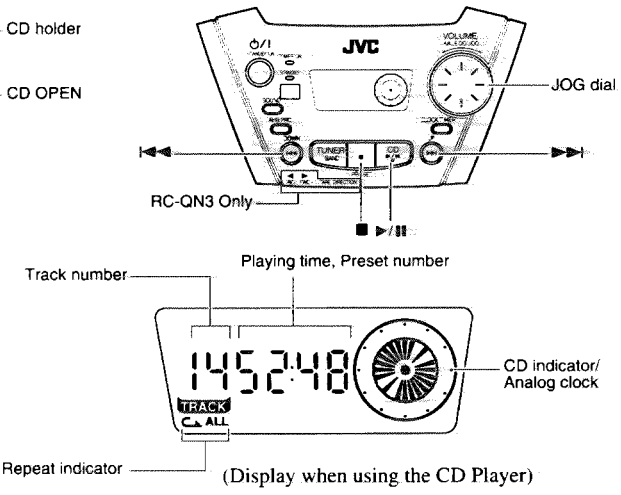
Press the TUNER BAND button to select FM MONO mode.

The "MONO" indicator lights up on the display.

To restore the stereo effect, press the TUNER BAND button to select FM Auto mode. The "MONO" indicator goes out.

Using the CD Player





(Display when using the CD Player)

You can use Normal or Repeat Play. Repeat Play can be set to repeat all or just one of the tracks on the CD.

One Touch CD Player (AC power only)

■ Just press the CD ▶/II button.

- The power is automatically turned on. If a CD is already inserted, "PLAY" is displayed and the CD will start playing from the first track.
- If no CD is inserted, "NO DISC" is displayed on the display and the CD Player remains in Stop mode.

Normal Play

1. Press the CD OPEN button on the Unit.

The CD holder opens.

2. Place a CD, with its label side up.

Gently close the CD holder by hand.

Press the CD ▶/II button.

The first track of the CD begins playing.

The CD Player automatically stops when the last track of the CD has finished playing.

- During playback, the track number being played and the playback time elapsed are shown on the display.

To stop playing the CD, press the ■ button.

The following information for the CD is displayed.

To pause, press the CD ▶/II.

To cancel pause, press the CD ▶/II again. Play continues from the point where it was paused.

Notes:

- You can place an 8 cm (3") CD without an adaptor.
- If the CD cannot be read correctly (because it is scratched, for example), "000000" appears on the display.
- Even if other function is selected during playing the CD, the last track is memorized.

Skip Play (|◀◀ or ▶▶|)

During playback, press the |◀◀ or ▶▶| button to select the track you want.

The selected track starts playing.

- Press and release the ▶▶| button to go forward one track at a time.
- Press and release the |◀◀ button to go back one track at a time.

Search Play

During playback, hold down the |◀◀ or ▶▶| button.

This operation will fast forward/backwards the CD so you can quickly find a particular passage in the track you are listening to (the CD is played slowly for a moment and then the playback speed increases).

Locating a Track directly with the Remote Control

Using the number keys on the Remote Control allows you can go directly to the beginning of any track.

During playback, enter the number of the track you want to listen to using the number keys.

The selected track starts playing.

- Example: For track 5, press 5. For track 15, press +10 then 5. For track 20, press +10, then 10. For track 32, press +10 three times, then 2.

Repeat Play

You can repeat one track or all the tracks on a CD.

During, or before playback, press the REPEAT button on the Remote Control to select the Repeat mode.

The Repeat indicator changes with each press of the button, as shown below.

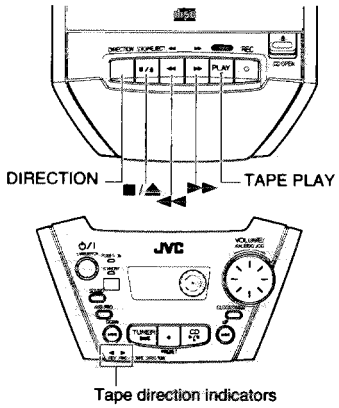
⊂→ ⊂ **ALL** →blank display → (back to the beginning)

⊂ : Repeats one track.
⊂ **ALL** : Repeats all the tracks.

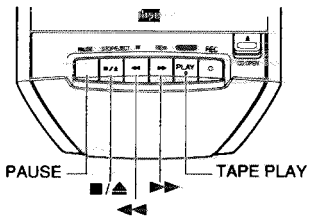
To exit Repeat mode, press the REPEAT button until the Repeat indicator on the display goes out.

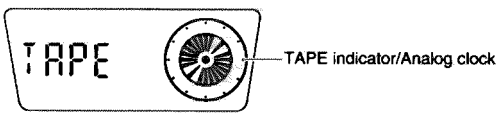
Using the Cassette Deck (Listening to a Tape)

(Model RC-QN3)



(Model RC-QN2)





(Display when using the Cassette Deck)

The Cassette Deck allows you to play and record audio tapes

Notes:

- The Cassette Deck performs best with normal tapes (metal or CrO_2 tapes are not recommended).
- The use of tapes longer than 120 minutes is not recommended, since characteristic deterioration may occur and these tapes easily jam in the pinch-roller and the capstan.

One Touch Play (AC power only) —

Just press the TAPE PLAY button on the Unit. The power is automatically turned on, "TAPE" is displayed, and if a tape is already in the deck, it will start to play.

Playback

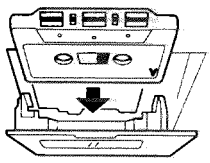
The Cassette Deck for RC-QN3 has an auto-reverse function allowing you to continuously play both sides of a tape. The Cassette Deck on model RC-QN2 plays in one direction only.

1. Press the ■/⏏ STOP/EJECT button to open the cassette holder.

2. Insert a cassette tape with the exposed side facing upward as shown below.

English

← Forward direction



Close the holder gently until it clicks.

Press the TAPE PLAY button.

- On model RC-QN3, both sides of the tape play continuously as follows until you stop the cassette deck.
  1. One side (side A for example) is played. The FWD (◁) direction indicator lights up.
  2. When the tape reaches its end, the other side (side B) is automatically played back. The REV (▷) direction indicator lights up.
  3. At the tape end, the first side (side A) is played back again, and so on.
- For RC-QN2, the tape is played and then stops when it reaches the end.
- The TAPE indicator turns to the right during Playback and Recording, even in Pause mode.

To change the playback direction, before or during playback, press the DIRECTION button on the Unit. (RC-QN3 only)
The tape playback direction changes.
To pause, press the PAUSE button on the Unit. (RC-QN2 only)
To cancel pause, press the PAUSE button again. Play continues from the point where it was paused. (RC-QN2 only)
To stop playing, press the ■/▲ STOP/EJECT button.
To remove the tape, stop the tape, and press the ■/▲ STOP/EJECT button again.

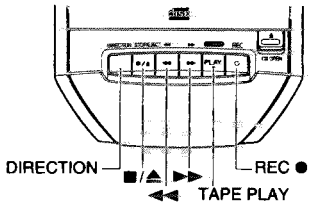
To Fast-Forward and Rewind a Tape

Press the ◄◄ (fast-forward) button on the Unit to fast-forward the tape.
Press the ►► (rewind) button on the Unit to rewind the tape.

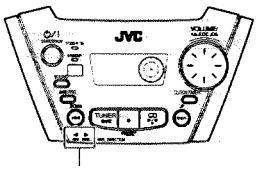
- The Cassette Deck automatically stops when the tape reaches its end. (RC-QN2 only)
- For RC-QN3, the tape runs to the left when the ◄◄ button is pressed and it runs to the right when the ►► button is pressed, regardless of the indication of the FWD (◁) / REV (▷) direction indicator. The Cassette Deck automatically stops when the tape reaches its end.
- The TAPE indicator does not turn during fast-forwarding or rewinding.

Using the Cassette Deck (Recording)

(Model RC-QN3)

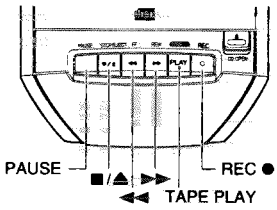


(For RC-QN3)

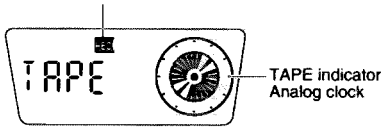


Tape direction indicators

(Model RC-QN2)



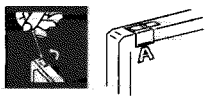
REC indicator



(Display when using the Cassette Deck)

Things To Know Before You Start Recording

- **It may be unlawful to record or playback copyrighted material without the consent of the copyright owner.**
- The correct recording level is automatically set by the ALC (Automatic Level Control) function, and is not affected by the VOLUME control on the Unit or by the use of sound effects.
- Two small tabs on the back of the cassette tape, one for side A and one for side B, can be removed to prevent accidental erasure or recording.
- To record on a cassette with the tabs removed, you must cover the holes with adhesive tape as shown.



Notes:

- Use normal tapes (not metal or CrO_2 tapes) for recording.
- At the start and end of cassette tapes, there is leader tape which cannot be recorded onto.

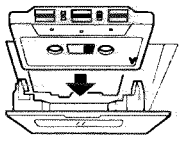
- If a recorded tape you make has excessive noise or static, the Unit may have been too close to a TV during the recording. Either turn off the TV or increase the distance between the TV and the Unit.

Recording from the Radio

1 Press the ■/▲ STOP/EJECT button to open the cassette holder.

2 Insert a blank or erasable cassette tape with the exposed side facing upward as shown below and wind past the leader tape.

← Forward direction



3 Close the holder gently until it clicks.

4. Tune in to a radio station.

5. Press the ● REC button on the Unit.

The PLAY button is pressed at the same time, the "REC" indicator lights up, and the Unit begins recording.

- For RC-QN3, recording is done in the following manner.
  1. One side (side A for example) is recorded. The FWD (◁) direction indicator lights up.
  2. When the tape reaches its end, the other side (side B) is played (not recorded onto). The REV (▷) direction indicator lights up. (You should press the ■/⏏ STOP/EJECT button to stop the tape.)
  3. At the tape end, the tape stops.
- On model RC-QN2, the tape is recorded and then stops when it reaches the end.
- The TAPE indicator turns to the right during Playback and Recording, even in Pause mode.

To pause the recording, press the PAUSE button on the Unit. (RC-QN2 only)

To cancel pause, press the PAUSE button again. Recording continues from the point where it was paused. (RC-QN2 only)

To stop recording, press the ■/⏏ STOP/EJECT button.

To remove the tape, stop the tape, and press the ■/⏏ STOP/EJECT button again to open the cassette holder.

Recording an AM station (BEAT CUT)

When recording an AM broadcast, beats may be produced which are not heard when listening to the broadcast. If this happens, you can use the BEAT CUT function.

Switch the BEAT CUT switch on the back of the Unit from the NORM-1 to 2 or 3.

Note: In regular use, the BEAT CUT switch should be set to the NORM-1 position.

Recording from the CD

The CD Player can be started with the Cassette Deck for synchronous recording and everything on the CD recorded onto the tape in the order it is on the CD.

1. Insert a cassette tape in the Cassette Deck and wind past the leader tape.

- On model RC-QN3, be sure that the FWD (◁) direction indicator is lit and the tape is wound for forward playback. (Refer to the tape insertion illustration mentioned above.) If the REV (▷) direction indicator is lit, press the DIRECTION button to correct it.

2. Load a CD.

3. Press the CD ▶/II button.

4. Press the ■ button to stop the CD.

- You can check the number of tracks and the total playback time of the CD on the display. (See page 6.)

5. Select the Repeat mode of the CD if desired.

To select the Repeat mode (⊂ or ⊂ ALL), press the REPEAT button on the Remote Control.

6. Choose whether to have approx. four seconds of blank tape between tracks.

If you want the blank section, skip this step.

If you do not want the blank section, perform the following operation on the CD Player.

- Press the CD ▶/II button twice.

7. Press the ● REC button on the Unit.

The PLAY button is pressed at the same time, the "REC" indicator lights up, and the synchronous recording begins.

- On model RC-QN3, recording happens as follows. (Note: you will need to press the ■/⏏ STOP/EJECT button when recording has finished for the first side of the tape.
- One side (side A for example) is recorded → When the tape reaches its end, the other side (side B) is played back (not recorded). → At the end of the tape (side B), the tape stops.
- On model RC-QN2, the tape is recorded and then stops when it reaches the end.
- To continue recording to the other side of the tape, perform the following steps.
  1. Reverse the cassette tape and wind past the leader tape.
  2. Press the CD ▶/II button and then press the ● REC button.

  Then, the synchronous recording begins from the beginning of the last track that was stopped at the end of the first side of the tape.

To stop recording, press the ■/⏏ STOP/EJECT button.

To remove the tape, stop the tape, and press the ■/⏏ STOP/EJECT button again to open the cassette holder.

Notes:

- If the CD reaches its end before the tape, the tape will continue to run until stopped. Press ■/⏏ STOP/EJECT button to stop the tape.
- During synchronous recording, the CD ▶/II, ⏮, and ⏭ buttons for the CD Player do not function.
- If you press the ● REC button during playback the CD, recording will start from the beginning of the track being played.

To Continue Recording to the Other Side of the Tape

On model RC-QN3:

After pressing the ■/⏏ STOP/EJECT button to stop synchronous recording when recording has finished for the first side of the tape, carry out the following to continue recording to the other side of the tape.

1. Reverse the cassette tape and wind past the leader tape.
2. Be sure that the FWD (◁) direction indicator is lit, and then press the ● REC button again.

   The synchronous recording will begin from the last track that was stopped at the end of the first side of the tape.

On model RC-QN2:

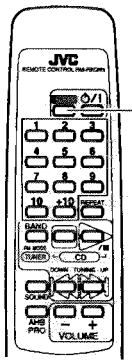
When the tape reached its end and stopped, carry out the following to continue recording to the other side of the tape.

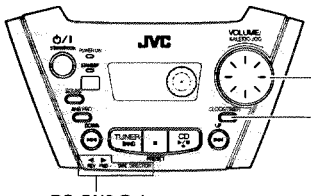
1. Reverse the cassette tape and wind past the leader tape.
2. Press the ● REC button again.

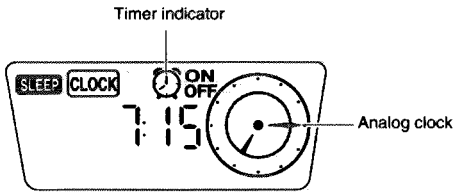
   The synchronous recording will begin from the last track that was stopped at the end of the first side of the tape.

English

Using the Timers







(Display when using the Timer)

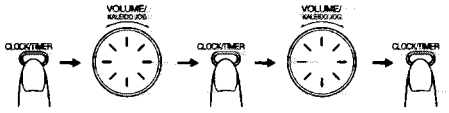
The timers let you control listening functions automatically.

Setting the Clock

You can set the clock when the Unit is turned on.

Notes:

- The clock must be correctly set for the timers to work.
- When setting the timers, you have two minutes in which to complete the procedure. Otherwise, the setting is cleared and must be repeated from the beginning.

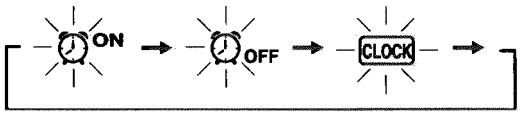


(For 2 seconds) (Display "CLOCK") (Select the time)

1 Press the CLOCK/TIMER button on the Unit and hold for more than two seconds.

2 Turn the JOG dial until the "CLOCK" indicator blinks on the display.

The display changes as follows:



(For 2 seconds) ("CLOCK"indicator) (Select the time)

3 Press the CLOCK/TIMER button.

The "CLOCK" indicator stays lit. The Unit's current set time blinks on the display.

4 Turn the JOG dial to set the time.

Turn the JOG dial to the right or left to increase or decrease the time. Turning it rapidly advances or decreases the time faster.

5 Press the CLOCK/TIMER button.

Then wait for 5 seconds or press the CLOCK/TIMER button once again to return to the original display. The selected time is set and the seconds start counting from 0.

CAUTION: If there is a power failure, the clock loses its setting after approx. five minutes. The display shows "00:00" and the "CLOCK" indicator blinks, and the clock must be reset.

Setting the Daily Timer

Once you have set the Daily Timer. The timer will be activated at the same time every day. You can cancel or re-activate the Daily Timer. Note that the Timer indicator (⏲) on the display shows that the Daily Timer you have set is in effect.

Note: Perform each setting within 30 seconds. Otherwise, setting is cleared and must be repeated from the beginning.

1 Press the ⏻/I button to turn on the Unit.

2 Setting the ON time (Example: 7:00)

1. Press the CLOCK/TIMER button on the Unit and hold for more than 2 seconds.
2. Turn the JOG dial until the "⏲ON" indicator blinks on the display.
3. Press the CLOCK/TIMER button.
   The current ON time blinks on the display.
4. Turn the JOG dial to set the time you want the Unit to come on.
   Turn the JOG dial to the right or left to advance or decrease the time.

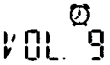
Turning it rapidly advances or decreases the time faster.

3 Setting the OFF time (Example: 10:15)

1. Press the CLOCK/TIMER button on the Unit.
   The " ⏲ " indicator lights up and the current OFF time blinks on the display.
2. Turn the JOG dial to set the time you want the Unit to be turned off.

4 Setting the volume level

1. Press the CLOCK/TIMER button on the Unit.
   The Timer indicator is lit and the current volume setting blinks on the display.
2. Turn the JOG dial to the right or left to increase or decrease the volume level.
   Volume setting range: 0 - 25 or –.



5 Press the CLOCK/TIMER button on the Unit.

The timer setting is completed and the display returns to the display before you set the timer. The Timer indicator stays lit.

6 Before turning off the Unit, prepare the music source.

Tuner: Tune in to the desired station.
CD: Load a CD.
Tape: Load a prerecorded cassette tape.

4. Press the ⏻/| button to turn off the Unit.

To confirm the timer settings (ON/OFF time and volume level), turn on the power, press the CLOCK/TIMER button for more than 2 seconds, and press the CLOCK/TIMER button repeatedly.

To change the timer setting, repeat the setting procedure from the beginning.

CAUTION: If the Unit is unplugged, or a power failure occurs, the timer setting will be lost after approx. five minutes. You will need to reset the clock first, then the timer.

Cancelling the Daily Timer

To cancel the Daily Timer, turn off the Timer indicator as follows:

(Hold for 2 seconds) (2 time)

1. Press the CLOCK/TIMER button on the Unit for more than 2 seconds.

2. Turn the JOG dial until the "⏲OFF" indicator blinks on the display.

3. Press the CLOCK/TIMER button .

The Timer indicator and the CLOCK indicator go out.

To re-activate the cancelled timer, repeat the same steps as for setting the Daily Timer.

Setting the SLEEP Timer

Use the Sleep Timer to turn the Unit off after a certain number of minutes when it is playing. By setting the Sleep Timer, you can fall asleep to music and know that your Unit will turn off by itself rather than play all night.

■ You can only set the Sleep Timer when the Unit is on and a source is playing.

1. Play back a CD, tune in to a desired station, or play back a tape.

2. Press the SLEEP button on the Remote Control.

The "SLEEP" indicator lights up.

3. Set the length of time you want the source to play before shutting off.

- Each time you press the SLEEP button, it changes the number of minutes shown on the display in this sequence:

→ 30 → 60 → 90 → 120 → Cancelled → (back to the beginning)

The display will stop blinking after 5 seconds and return to the display before you set the Sleep Timer.

The Unit is now set to turn off after the number of minutes you have set.

To Confirm the Sleep Time

When the SLEEP button is pressed, the remaining sleep time is displayed. After 5 seconds the original display returns.

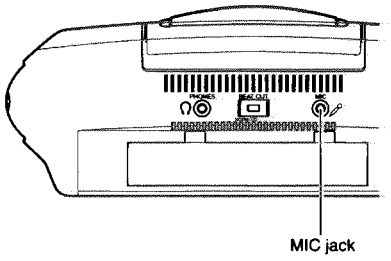
To Cancel the SLEEP Timer Setting

Press the SLEEP button until the "SLEEP" indicator goes off on the display.

Turning off the Unit also cancels the SLEEP Timer.

■ If you are setting the Daily Timer, the Unit will be turned on at the set time to wake you up.

Using the Microphones



MIC jack

Microphone Mixing

Using a microphone (not supplied), you can mix the microphone sound with a source sound.

1. Connect a microphone by plugging it into the MIC jack on the back of the Unit.

2. Start a source; CD, tape, or tuner.

3. Adjust the volume level, as you sing into the microphone.

Playing the Microphone Sound through the Speakers

1. Connect a microphone by plugging it into the MIC jack on the back of the Unit.

2. Adjust the volume level, as you sing into the microphone.

Note: If "howling" occurs, keep the microphone away from the Unit.

To Record Microphone Mixing on a Tape

1. Connect a microphone by plugging it into the MIC jack on the back of the Unit.

2. Adjust the volume level, as you sing into the microphone.

3. To record, follow the steps in "Recording from the Radio" or "Recording from the CD" according to the source you want to mix. (See pages 8 and 9.)

Note: If "howling" occurs, keep the microphone away from the Unit.

English

Recording from a Microphone on a Tape

1. Connect a microphone by plugging it into the MIC jack on the back of the Unit.

2. Adjust the volume level, as you sing into the microphone.

3. To record, refer to "Recording from Radio" except for tuning in to a radio station. (See page 8.)

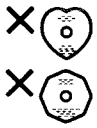
Note: If "howling" occurs, keep the microphone away from the Unit.

Care And Maintenance

Handle your CDs carefully, and they will last a long time.

Compact Discs

- Only CDs bearing this mark can be used with this Unit.



- Continued use of irregularly shaped CDs (heart-shape, octagonal, etc.) can damage the Unit.

- Remove the CD from its case by holding it at the edges while pressing the case's center hole lightly.
- Do not touch the shiny surface of the CD, or bend the CD.

- Put the CD back in its case after use to prevent warping.
- Be careful not to scratch the surface of the CD when placing it back in the case.
- Avoid exposure to direct sunlight, temperature extremes, and moisture.

- A dirty CD may not play correctly. If a CD is dirty, wipe it with a soft cloth in a straight line from center to edge.

CAUTION: Do not use any solvent (for example, conventional record cleaner, spray thinner, benzine, etc.) to clean a CD.

Moisture Condensation

Moisture may condense on the lens inside the Unit in the following cases:

- After turning on heating in the room.
- In a damp room.
- If the Unit is brought directly from a cold to a warm place.

Should this occur, the Unit may malfunction. If this happens, leave it turned on for a few hours until the moisture evaporates, unplug the AC power cord, and then plug it in again.

General Notes

To ensure top performance, keep your CDs and the mechanism clean.

- Store CDs in their cases, and keep them in cabinets or on shelves.
- Keep the CD holder closed when not in use.

Cassette Tapes

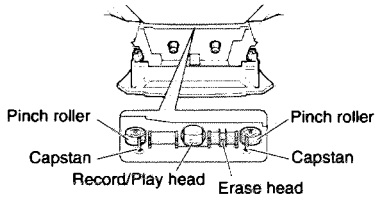
- If a tape is loose, it may get stretched, cut, or caught in the cassette. Take up the slack by inserting a pencil in one of the reels and rotating in the right direction.

- Do not touch the tape surface.

- Do not store the tape:
  - In dusty places
  - In direct sunlight or heat
  - In damp areas
  - On a TV or speaker
  - Near a magnet

Cassette Deck

- If the heads, capstan, or pinch-roller in the Cassette Deck become dirty, you may experience:
  - Loss of sound quality
  - Discontinuous sound
  - Fading
  - Incomplete erasure
  - Difficulty recording
- Clean the heads, capstans, and pinch-rollers using a cotton swab moistened with alcohol.



- If the heads become magnetized, the Unit will produce noise or lose high frequency notes.
- To demagnetize the heads, turn off the Unit, and use a head demagnetizer (available at electronics and record shops).

English

Troubleshooting

- If you have a problem with your System, check this list for a possible solution before calling for service.
- If you cannot solve the problem from the hints given here, or the System has been physically damaged, call a qualified person, such as your dealer, for service.

Symptom	Possible Cause	Action
No sound is heard.	• The power cord is disconnected. • The batteries in the Unit have lost their charge. • Headphones are connected.	• Connect it firmly • Replace the batteries. • Disconnect the headphones.
Unable to record.	Cassette record protect tabs are removed.	Cover the holes on the back edge of the cassette with tape.
Poor radio reception	• The System is not properly positioned. • The Antenna is not properly positioned.	• Turn the System to the best reception position. • Extend the Antenna and turn it to the best reception position.
The CD skips.	The CD is dirty or scratched.	Clean or replace the CD.
The CD does not play.	The CD is upside down.	Put the CD in with the label side up.
Unable to operate the Remote Control.	• The path between the Remote Control and the sensor on the Unit is blocked. • The batteries have lost their charge.	• Remove the obstruction. • Replace the batteries.
Operations are disabled.	The built-in microprocessor has malfunctioned due to external electrical interference.	Unplug the Unit then plug it back in.
The cassette door cannot be opened.	During tape playing, the power cord was unplugged.	Plug in the power cord, press the ⏻/I button, and then press the ■/⏏ STOP/EJECT button.

Specifications

Amplifier

Output Power	14 W (7 W + 7 W) at 3 ohms (Max.)
Input jack	MIC (3.5 mm dia. plug) (Matching impedance: 200 ohms - 2 kohms)
Output jack	Headphones (0 - 20 mW/ch, 32 ohms) (Matching impedance: 16 ohms - 1 kohm)

Cassette Deck

Frequency Response	80 - 12,500 Hz
Wow and Flutter	0.15% (WRMS)

CD Player

Signal-To-Noise Ratio	90 dB
Wow And Flutter	Unmeasurable

Tuner

FM Tuner	
Tuning Range	87.5 - 108.0 MHz
AM Tuner	
Tuning Range	531 - 1,602 kHz (at 9 kHz channel space) 530 - 1,710 kHz (at 10 kHz channel space)
Antenna	Telescopic antenna for FM Built-in ferrite core antenna for AM
Speakers	10 cm (3-15/16") × 2, 3 ohms

General

Dimensions		480 × 186 × 254 mm (W/H/D) (18-15/16 × 7-3/8 × 10 inches)
Mass	RC-QN2	Approx. 4.2 kg (9.3 lbs) (without batteries)
	RC-QN3	Approx. 4.4 kg (9.8 lbs) (without batteries)

Accessories

Power Cord (1)
Remote Control (RM-RXQN3E) (1)
Batteries for Remote Control R6 (SUM-3) /AA (15F) (2)
AC plug adaptor (1) (U, US, UX, UT)

Power Specifications

Power Requirements	AC 110/127/230 V ~ , 50/60 Hz
Power Consumption	17 watts (power on mode) 2.8 watts (in Standby mode)

Design and specifications are subject to change without notice.

-MEMO-